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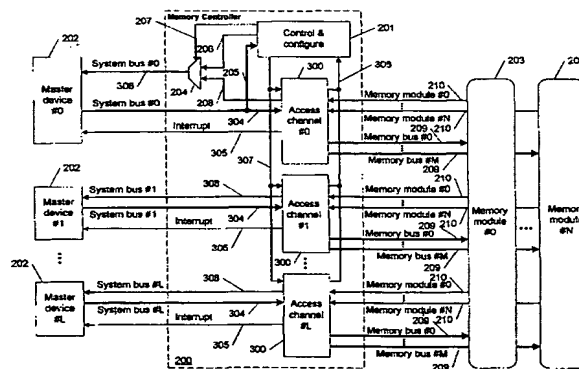
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(54) Title: METHOD AND MEMORY CONTROLLER FOR SCALABLE MULTI-CHANNEL MEMORY ACCESS



(57) Abstract: This invention relates to an electrical device and a corresponding method for efficient and flexible control of memory access. The electrical device (and corresponding method) according to the present invention is connected to at least one memory accessing unit and to a memory comprising at least one physical memory module, where the device comprises at least one access channel circuit connected to said least one memory accessing unit via at least one system bus and to said at least one physical memory module, said access channel circuit providing memory access for said at least one memory accessing unit to at least a part of said memory. In this way, efficient and highly flexible memory access is provided, where simultaneous/parallel memory access is achieved. Additionally, the provided scalability of the invention enables the specific embodiment of the memory controller/method of memory access to be scaled to the appropriate need (speed, flexibility, etc.). Further, a reduction or elimination of the risk of conflict between memory accessing devices is enabled. Automatic data transfer/pre-fetch is also provided speeding data transfer up. The invention also relates to a computer readable-medium comprising a program, which may cause a computer to perform the method of the present invention and a use of the device/method in a mobile communications terminal.